INFINOVA CCTV IR LENS MANUAL

V1111-28, V1111-4, V1111-6, V1111-8, V1112-28, V1112-4, V1112-6, V1112-8, V1131-2811, V1131-412, V1131-1040, V1132-2811, V1132-1040, V1132-412

Thank you very much for purchasing this CCTV lens.
In order to understand the lens specifications and performances, please read this manual thoroughly.
Also please handle the lens with care.

MOUNT TYPE

CS or C (V1131-412, V1131-1040, V1132-1040, V1132-412) mount is equipped with the above Infinova CCTV lenses. Before you use the lens, please make sure that the mount type matches that on your camera.

INSTALLATION ON CAMERA

The lens is installed by screwing it clockwise into the mount on the CCTV camera. Once the lens is screwed in completely to its mechanical stop position, you will then be able to rotate lens chassis back to suit the set-up position of the camera.

IR FUNCTION

The lens is designed to have the same focal point in the IR light range as in the visible light range. Since there is no focus shift in any light condition, the lens is ideal for use with Day/Night cameras. However, as the depth of field in the IR range is very narrow, focus adjustment should be done very carefully. So, when you install the lens with IR illumination, please check your focus setting in both visible light and IR light.

WIRING DIAGRAM

Please read the user's manual for the devices such as the camera and controller before wiring. Then please follow the chart below to insure the right connection.

V1111-28, V1111-4, V1111-6, V1111-8, V1131-2811, V1131-412, V1112-28, V1112-4, V1112-6, V1112-8, V1132-2811, V1132-1040, V1132-412
Supplied with 4Pin Square Connector (JEITA) 1————Control (−) 2———— Control (+) 3————Drive (+) 4———— Drive (−)
＊When adding plus Voltage to Drive (+). Will move to the opening direction.

IRIS

V1112-28, V1112-4, V1112-6, V1112-8, V1132-2811, V1132-412

If the camera has a selection switch between Video and DC, please set it to DC.

TO INSURE LONG TERM USE

* Please remove dust on the lens by using a blower or soft brush. Avoid touching the lens surface.
* In order to remove finger prints or oil stains on the lens surface, use lens cleaning paper or clean cotton cloth with a little cleaning liquid. Then wipe off the stains lightly starting from the center of the lens surface. Please wipe the lens body with a silicon cloth. Avoid using any organic solvents such as thinner or benzene.

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SPECIFICATION

MODEL		V1111-28 V1112-28	V1111-4 V1112-4	V1111-6 V1112-6	V1111-8 V1112-8	V1131-2811 V1132-2811	V1131-1040, V1132-1040	V1131-412 V1132-412
Image Size		1/3 inch					1/2 inch	
Focal Length		2.8mm	4mm	6mm	8mm	2.8~11mm	10~40mm	4~12mm
Aperture Range	Manual IRIS	F1.2~CLOSE				F=1.4~CLOSED	F=1.4~CLOSED	F=1.2～CLOSE
	DC IRIS	F/1.2~360				F/1.4~360	F/1.4~360	F/1.2～360
Angle of View	Horizontal	93.2°	65.6°	46.5°	34.5°	(TELE) 26.2° (WIDE) 97.4°	(TELE) 9.2° (WIDE) 37.5°	(TELE) 31.2° (WIDE) 93.6°
	Vertical	70.7°	49.7°	34.6°	25.7°	(TELE) 19.7° (WIDE) 72.4°	(TELE) 7.0° (WIDE) 27.5°	(TELE) 23.4° (WIDE) 68.9°
Clear Aperture of Front Lens		Φ18.3mm	Φ15.6mm	Φ14.7mm	Φ15.2mm	Φ26.3mm	—	—
Clear Aperture of Rear Lens		Φ9.3mm	Φ10.3mm	Φ9.6mm	Φ10.5mm	Φ8.0mm	—	—
Back Focus		8.58mm	8.57mm	8.92mm	9.89mm	WIDE: 8.66mm (in air)	—	—
						TELE: 18.69mm (in air)	—	—
Exit Pupil Position		-336.0mm	+149.5mm	-281.9mm	-40.3mm	WIDE: 72.9mm	—	—
						TELE: -33.3mm	—	—
Mount-Type		CS MOUNT					C MOUNT	
Dimension		35mm				59mm	62mm	54mm
DC Iris		V1112-28	V1112-4	V1112-6	V1112-8	V1132-2811	V1132-1040	V1132-412
Manual Iris		V1111-28	V1111-4	V1111-6	V1111-8	V1131-2811	V1131-1040	V1131-412
Residence of Drive Coil		190 Ohm ±10% (20°C)						
Residence of Control Coil		465 Ohm±10% (20°C)		417 Ohm ±10% (20°C)		720 Ohm ±10% (20°C)		
Max Voltage		6V						

Specifications are subject to change without notice.

INFINOVA PRODUCT SAFETY PRECAUTIONS

These precautionary statements are classified into two levels of danger depending on the content and grade of elements that comprise the product.

⚠ Warning!	If the user does not obey these instructions and misuses the product, serious injury or loss of life may occur.	⚠ Caution!	If the user does not obey these instructions and misuses the product, serious injury and/or property damage may occur.

The following symbols are used in these precautionary statements.

Shock!	This symbol warns that an electrical current is present and electric shock may occur.	Do not!	This symbol means that you should not disassemble the product.
Fire!	This is a fire hazard symbol that means there is the possibility of igniting fire.	Direction!	This symbol means that you should pay attention to certain handling procedures.

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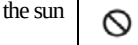
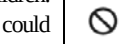
WARNING

Don't disassemble the unit or try to put any foreign substance in it, especially metal of flammable matter. Doing so could cause electrical shock and/or fire.		Don't scratch, open, twist or heat the connector cable because doing so may cause fire and/or electric shock.		Don't attempt to use product it you suspect something isn't right as in seeing smoke or detecting a strange smell. If you use the product under these conditions fire and/or electric shock could occur.	
Please keep the unit away from water. If water should get inside the unit, stop using immediately, otherwise electric shock and/or fire may occur.		If the connector cable is cracked or damaged, please exchange. If you continue to use the damaged cable, fire and/or electric shock may results.		Don't look through the lens directly at the sun since this could cause blindness.	
Don't place the unit near extreme heat, flame or gas since combustion may occur resulting in fire.		Don't try to repair the unit or any power source since that may cause fire and/or electric shock.		Keep the product out of the reach of children. If the product fell on a child, injury could occur.	

CAUTION

Don't place the product in locations with extremely low or high temperatures. Don't use the product in areas that are hotter than 60 degrees Centigrade or colder than –10 degrees Centigrade. Such extremes will affect the quality performance of the product and could damage it.		Don't plug in or pull out the cable to or form an electrical outlet with wet hands. This may result in electric shock.		Don't place the product near a stove or humidifier or any place where there is high heat or moisture. Fire and/or electric shock may occur.	
Don't point the lens directly at the sun or other sensor light since that could damage the image sensor on the camera and result in poor image quality.		When attaching the lens to the camera body, make sure you grip it securely to avoid the possibility of the lens falling and becoming damage.		If you going to connect the product with another product, please read the connection instructions from both product manuals carefully before attempting any connection. Otherwise damage may result to one or both products.	
Don't drop or hit the product forcefully. This may cause product performance failure.		When strong the lens, keep it out of direct sunlight. Fire could occur as result of the light being reflected off the lens onto a flammable substance.		If you going to use a lens that has a tripod mount but are using camera body that is heavier than the lens, please use the tripod mount on the camera. Failure to do so could result in severe damage to the lens.	
Don't place the connector cable next to a heater since it could melt and cause fire and/or electric shock.		Don't place in dusty and humid place. Fire and/or electric shock may occur.			

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